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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/773,261	02/09/2004	Gyana Ranjan Parija	YOR920030256US1	8578
	7590 08/20/200 ELLECTUAL PROPEI	EXAMINER		
8321 OLD COU	JRTHOUSE ROAD	FREJD, RUSSELL WARREN		
SUITE 200 VIENNA, VA 2	22182-3817		ART UNIT	PAPER NUMBER
,			2128	
			MAIL DATE	DELIVERY MODE
			08/20/2009	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

		Applica	ation No.	Applicant(s)	
Office Action Summary		10/773	,261	PARIJA ET AL.	
		Examir	ner	Art Unit	
		Russell	Frejd	2128	
The MAILING Period for Reply	DATE of this commun	ication appears on	the cover sheet v	with the correspondence a	ddress
A SHORTENED ST WHICHEVER IS LC - Extensions of time may b after SIX (6) MONTHS fn - If NO period for reply is s - Failure to reply within the Any reply received by the	ONGER, FROM THE M e available under the provisions om the mailing date of this comn pecified above, the maximum st	AILING DATE OF of 37 CFR 1.136(a). In no nunication. atutory period will apply an will, by statute, cause the	THIS COMMUN event, however, may a d will expire SIX (6) MO application to become a	a reply be timely filed ONTHS from the mailing date of this ABANDONED (35 U.S.C. § 133).	
Status					
2a) ☐ This action is 3) ☐ Since this app		2b)⊠ This action is for allowance exce	s non-final. pt for formal ma	tters, prosecution as to th D. 11, 453 O.G. 213.	ne merits is
Disposition of Claims					
4a) Of the about 5) Claim(s) 9-13 6) Claim(s) 1-5,6 7) Claim(s) 6,7 i 8) Claim(s) Application Papers 9) The specificat 10) The drawing(s) Applicant may	B and 14-21 is/are rejects/are objected to are subject to restriction is objected to by the object of the obje	re withdrawn from cted. ction and/or election e Examiner. a) accepted or ction to the drawing(s	n requirement. b) objected to s) be held in abeya	o by the Examiner. ance. See 37 CFR 1.85(a). g(s) is objected to. See 37 C	CFR 1.121(d).
11)☐ The oath or de	eclaration is objected to	by the Examiner.	Note the attache	ed Office Action or form P	PTO-152.
Priority under 35 U.S.	C. § 119				
a) All b) S 1. Certifie 2. Certifie 3. Copies applica	· · · · · · · · · · · · · · · · · · ·	documents have b documents have b of the priority docu nal Bureau (PCT F	een received. een received in ments have bee Rule 17.2(a)).	Application No n received in this Nationa	ıl Stage
	s Patent Drawing Review (F Statement(s) (PTO/SB/08)	PTO-948)	Paper No	Summary (PTO-413) o(s)/Mail Date Informal Patent Application 	

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Examination of Application 10/773,261

1. Claims 1-21 of application 10/773,261, filed on 9-February-2004, are pending in the application. This communication is in response to the Notice of Withdrawal from Allowance, filed on 11-May-2009, and in view of the Amendment received 22-August-2008. Please note the items below that were discussed in the Examiner's Amendment dated 22-December-2008, and the rejection using the reference discovered during the review process.

Claim Rejections under 35 U.S.C. § 101

- 2. Claims 1-4 and 14-21 are rejected under 35 U.S.C. 101 because the claimed invention is directed to non-statutory subject matter.
- 2.1 In regard to claims 1-4 and 21, and further In view of the memorandums from John Love dated 15-May-2008 and 7-January-2009, a § 101 process must: (1) be tied to another statutory class (such as a particular apparatus), or (2) transform underlying subject matter (such as an article or materials) to a different state or thing. If neither of these requirements is met by the claim, the method is not a patent eligible process under § 101, and is therefore non-statutory subject matter. To qualify as a § 101 statutory process, the claim should positively recite the other statutory class (the thing or product) to which it is tied, or positively recite the subject matter that is being transformed. The Examiner contends that independent claim 1 at least does not positively recite the other statutory class (the thing or product) to which it is tied.

Please note that an agreement was reached between Applicant's representative and the Examiner on 8-December-2008, via an Examiner's amendment, that the following changes would overcome this rejection:

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Claim 1 line 3 Change "for a process," to --for a process to be executed on a computer, --.

2.2 In regard to claims 14-20, the Examiner posits that these claims are computer executable software code, or a program per se, consisting of a computerized tool having software instructions that implement the method for providing a global solution to a minimum-maximum problem. For at least this reason, the software instructions of the present invention do not meet the criteria for a statutory process (MPEP Section 2106.01).

Please note that an agreement was reached between Applicant's representative and the Examiner on 8-December-2008, via an Examiner's amendment, that the following changes would overcome this rejection:

Claim 14 line 2 After "comprising:" add --a computer connected to a memory;--.
line 4 Change "problem; and " to --problem; a calculator to determine
which point on said periphery provides a global solution to said
minimum-maximum problem; and--.
line 6 Change "a memory" to --said memory--.
Claim 18 Cancel claim 18.

Claim Rejections under 35 U.S.C. § 102

3. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless --

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(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

3.1 Claims 5 and 8 are rejected under 35 U.S.C. 102(b) as being anticipated by Chiang et al., USPAP 2003/0220772.

3.2 Chaing et al. disclose:

Claims 5 and 8: An apparatus for a global optimization to a minimum-maximum problem comprising: A receiver to receive data related to said minimum-maximum problem, for populating a min-max model (claim 5) [section(s) 0004];

a first calculator to provide a plurality of minimum values (claims 5 and 8) [0004, 0014]; a second calculator to locate a global optimum value, given a plurality of minimum values (claims 5 and 8)[0014];

a transmission port to send said global optimum to at least one of a display device, a printer, and a memory (claims 5 and 8)[0024].

Also, claim 8 provides a memory containing data appropriate to a minimum-maximum problem [deemed inherent to the discussion in 0024].

Claim Objections

4. Claims 6 and 7 are objected to as being dependent upon a rejected base claim, but would be allowable, pending resolution of any rejections noted above, if rewritten in independent form including all of the limitations of the base claim and any intervening claims. The limitations considered allowable are:

Claim 6: The apparatus of claim 5, wherein at least one of said first calculator and said second calculator comprises a linear programming solver.

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Claim 7: The apparatus of claim 5, wherein: said receiver comprises a memory interface to access a memory containing data; and a third calculator to convert the data accessed from said memory into a data structure appropriate for said first calculator and said second calculator and thereby populating said rain- max model.

Allowed Claims

5. Claims 1-4 and 9-21 are deemed allowable over the prior art of record at this time, pending resolution of any rejections noted above, because the prior art does not specifically claim, in regard to independent claims 1, 9 and 13: for a process, wherein is defined a linear functional form y = f(X,c), where X comprises a set of independent variables $X = \{x_1, \ldots x_n\}$, c comprises a set of functional parameters $c = \{c_1, \ldots c_n\}$, and y comprises a dependent variable, where the independent variables set X is partitioned into two subsets, X_1 and X_2 , receiving data for said process [defined at p. 4, lns. 4-13]; minimizing y with respect to X_1 [p. 4, ln. 11]; and maximizing y with respect to X_2 [p. 4, ln. 11], subject to a set of constraints, wherein said maximizing y comprises a global optimum for said process [p. 4, lns. 12-13]; and sending said global optimum to at least one of a display device, a printer, and a memory [p. 17 ln. 20 through p. 18, ln. 7]. Also, in regard to independent claim 14: a linear programming solver to calculate a periphery of a polyhedron representing a region of all points that satisfy a linear constraint in a minimum-maximum problem [p. 5, lns. 15-19].

Dependent claims 2-4, 10-12, and 15-21 are deemed allowable as depending either directly or indirectly from independent claims 1, 9, 13, and 14.

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Response Guidelines

6. A shortened statutory period for response to this action is set to expire 3 (three) months and 0 (zero) days from the date of this letter. Failure to respond within the period for response will cause the application to become abandoned (see MPEP 710.02, 710.02(b)).

6.1 Any response to the Examiner in regard to this non-final action should be

directed to: Russell Freid, telephone number (571) 272-3779, Monday-Friday

from 0530 to 1400 ET, **or** the examiner's supervisor, Kamini Shah, telephone number (571) 272-2279. Inquires of a general nature or relating to the status of this application should be directed to the TC2100

Group Receptionist (571) 272-2100.

mailed to: Commissioner of Patents and Trademarks

P.O. Box 1450, Alexandria, VA 22313-1450

or faxed to: (571) 273-8300

Hand-delivered responses should be brought to the Customer Service Window, Randolph Building, 401 Dulany Street, Alexandria, VA, 22314.

/Russell Frejd/ Primary Examiner AU 2128